

Appl. No. 10/058,391  
Amdt. dated June 10, 2005  
Reply to Office Action of Feb. 15, 2005

**Amendments to the Drawings:**

The drawings have been objected to on the grounds that Figure 1, detail 14 reads "Dyeing Process," while the specification specifically teaches it is a "Drying Process." The drawing has been corrected and is attached.

## REMARKS/ARGUMENTS

Claims 1-19 are pending in this application. Claims 1, 2, 5-11, and 15-19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Brutel et al. in view of Beau et al. Claims 3, 4, and 12-14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Brutel et al. in view of Beau et al., and further in view of Applicant's specification. It is respectfully submitted; however, that the cited references, either singularly or in combination, fail to anticipate or render obvious the claimed invention. Specifically, the cited references fail to disclose, suggest, or teach a process of false twist texturing the yarn before dyeing or dyeing the partially-oriented yarn before twisting the yarn onto an end use package.

As depicted in Fig. 2, a flow diagram of the novel dyeing process in the present application is illustrated. The poly-oriented yarn 20 is textured before the yarn is taken up by a false-twist or air-jet machine onto a dye package for dyeing. The yarn is then dyed in a dye operation with a combination of pressure, heat and chemicals to impart a desired color to the yarn before the yarn is dried in a drying process. The dried yarn, still on the dye package, is delivered to a twisting operation where actual twist is applied. The twisted yarn is delivered to a take-up where it is wound onto an end use package such as a conventional paper or plastic tube or cone. After the twisting is complete, the yarn still possesses torque in the direction opposite the twist. The torque is eliminated by autoclaving the yarn on the end use package in an autoclave.

Brutel et al. discloses a perforated core for a textile yarn package. Brutel et al.

further discloses that a premanufactured, textured, false twist yarn is wound onto the textile yarn package. The yarn is then dyed in a vessel. Brutel et al. does not disclose the steps of false twist texturing the yarn before dyeing or dyeing the partially-oriented yarn before twisting the yarn onto an end use package.

Beau et al. discloses a process and apparatus for manufacturing a drawn and twisted multifilament synthetic yarn. This process involves subjecting the yarn to a drawing and twisting operation which is carried out simultaneously by means of a double twist spindle. The yarn is then subjected to a heat treatment under a controlled tension before being wound. Beau et al. fails to disclose the step of false twist texturing the yarn before dyeing or dyeing the partially-oriented yarn before twisting the yarn onto an end use package.

There is no teaching, suggestion, or incentive to combine Brutel et al. with Beau et al. to render the claims obvious. Specifically, there is simply no incentive or suggestion in the cited references disclosing the sequences of false twist texturing the yarn before dyeing or dyeing the yarn before twisting the yarn onto an end use package. In fact, as stated above, all the cited references either fail to teach this series of steps or teach away from this sequence.

The sequence of the steps in the applicant's process is the distinguishing feature over the prior art. The sequence of false twist texturing the yarn before dyeing and dyeing the yarn before twisting the yarn onto an end use package are the novel features of the invention. The sequence of these steps as set forth in the applicant's

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invention are not found in either Brutel et al. or Beau et al. As such, it is respectfully submitted that the claims are patentably distinct over the prior art.

Claims 2-9 depend from claim 1, and are thus believed to be allowable for the reasons stated above.

Claims 11-19 depend from claim 10, and are thus believed to be allowable for the reasons stated above.

In view of the above, it is submitted that the claims are in condition for allowance. Reconsideration of the rejections are requested. Allowance of claims 1-18 at an early date is solicited.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'W. Thad Adams, III', with a stylized circular flourish at the end.

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